

**IBRANCE- palbociclib tablet, film coated**  
**US Pharmaceuticals**

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**HIGHLIGHTS OF PRESCRIBING INFORMATION**

**These highlights do not include all the information needed to use IBRANCE safely and effectively. See full prescribing information for IBRANCE.**

**IBRANCE® (palbociclib) tablets, for oral use**  
**Initial U.S. Approval: 2015**

----- **INDICATIONS AND USAGE** -----

IBRANCE is a kinase inhibitor indicated for the treatment of adult patients with hormone receptor (HR)-positive, human epidermal growth factor receptor 2 (HER2)-negative advanced or metastatic breast cancer in combination with:

- an aromatase inhibitor as initial endocrine-based therapy in postmenopausal women or in men (1); or
- fulvestrant in patients with disease progression following endocrine therapy. (1)

----- **DOSAGE AND ADMINISTRATION** -----

IBRANCE tablets are taken orally with or without food in combination with an aromatase inhibitor or fulvestrant. (2)

- Recommended starting dose: 125 mg once daily taken with or without food for 21 days followed by 7 days off treatment. (2.1)
- Dosing interruption and/or dose reductions are recommended based on individual safety and tolerability. (2.2)

----- **DOSAGE FORMS AND STRENGTHS** -----

Tablets: 125 mg, 100 mg, and 75 mg. (3)

----- **CONTRAINDICATIONS** -----

None. (4)

----- **WARNINGS AND PRECAUTIONS** -----

- Neutropenia: Monitor complete blood count prior to start of IBRANCE therapy and at the beginning of each cycle, as well as on Day 15 of the first 2 cycles, and as clinically indicated. (2.2, 5.1)
- Interstitial Lung Disease (ILD)/Pneumonitis: Severe and fatal cases of ILD/pneumonitis have been reported. Monitor for pulmonary symptoms of ILD/pneumonitis. Interrupt IBRANCE immediately in patients with suspected ILD/pneumonitis. Permanently discontinue IBRANCE if severe ILD/pneumonitis occurs. (5.2)
- Embryo-Fetal Toxicity: IBRANCE can cause fetal harm. Advise patients of potential risk to a fetus and to use effective contraception. (5.3, 8.1, 8.3)

----- **ADVERSE REACTIONS** -----

Most common adverse reactions (incidence  $\geq 10\%$ ) were neutropenia, infections, leukopenia, fatigue, nausea, stomatitis, anemia, alopecia, diarrhea, thrombocytopenia, rash, vomiting, decreased appetite, asthenia, and pyrexia. (6)

**To report SUSPECTED ADVERSE REACTIONS, contact Pfizer Inc at 1-800-438-1985 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

----- **DRUG INTERACTIONS** -----

- CYP3A Inhibitors: Avoid concurrent use of IBRANCE with strong CYP3A inhibitors. If the strong inhibitor cannot be avoided, reduce the IBRANCE dose. (2.2, 7.1)
- CYP3A Inducers: Avoid concurrent use of IBRANCE with strong CYP3A inducers. (7.2)
- CYP3A Substrates: The dose of sensitive CYP3A4 substrates with narrow therapeutic indices may need to be reduced when given concurrently with IBRANCE. (7.3)

----- **USE IN SPECIFIC POPULATIONS** -----

- Lactation: Advise not to breastfeed. (8.2)

**See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.**

**Revised: 11/2019**

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**FULL PRESCRIBING INFORMATION****1 INDICATIONS AND USAGE**

IBRANCE is indicated for the treatment of adult patients with hormone receptor (HR)-positive, human epidermal growth factor receptor 2 (HER2)-negative advanced or metastatic breast cancer in combination with:

- an aromatase inhibitor as initial endocrine-based therapy in postmenopausal women or in men; or
- fulvestrant in patients with disease progression following endocrine therapy.

**2 DOSAGE AND ADMINISTRATION**

## 2.1 Recommended Dose and Schedule

The recommended dose of IBRANCE is a 125 mg tablet taken orally once daily for 21 consecutive days followed by 7 days off treatment to comprise a complete cycle of 28 days. IBRANCE tablet may be taken with or without food [see *Clinical Pharmacology* (12.3)].

Administer the recommended dose of an aromatase inhibitor when given with IBRANCE. Please refer to the Full Prescribing Information for the aromatase inhibitor being used.

When given with IBRANCE, the recommended dose of fulvestrant is 500 mg administered on Days 1, 15, 29, and once monthly thereafter. Please refer to the Full Prescribing Information of fulvestrant.

Patients should be encouraged to take their dose of IBRANCE at approximately the same time each day.

If the patient vomits or misses a dose, an additional dose should not be taken. The next prescribed dose should be taken at the usual time. IBRANCE tablets should be swallowed whole (do not chew, crush, or split them prior to swallowing). Tablets should not be ingested if they are broken, cracked, or otherwise not intact.

Pre/perimenopausal women treated with the combination IBRANCE plus fulvestrant therapy should also be treated with luteinizing hormone-releasing hormone (LHRH) agonists according to current clinical practice standards.

For men treated with combination IBRANCE plus aromatase inhibitor therapy, consider treatment with an LHRH agonist according to current clinical practice standards.

## 2.2 Dose Modification

The recommended dose modifications for adverse reactions are listed in Tables 1, 2, and 3.

**Table 1. Recommended Dose Modification for Adverse Reactions**

Dose Level	Dose
Recommended starting dose	125 mg/day
First dose reduction	100 mg/day
Second dose reduction	75 mg/day*

\* If further dose reduction below 75 mg/day is required, discontinue.

**Table 2. Dose Modification and Management – Hematologic Toxicities\***

<b>Monitor complete blood counts prior to the start of IBRANCE therapy and at the beginning of each cycle, as well as on Day 15 of the first 2 cycles, and as clinically indicated.</b>	
<b>For patients who experience a maximum of Grade 1 or 2 neutropenia in the first 6 cycles, monitor complete blood counts for subsequent cycles every 3 months, prior to the beginning of a cycle and as clinically indicated.</b>	
CTCAE Grade	Dose Modifications
Grade 1 or 2	No dose adjustment is required.
Grade 3	<u>Day 1 of cycle:</u> Withhold IBRANCE, repeat complete blood count monitoring within 1 week. When recovered to Grade $\leq 2$ , start the next cycle at the <i>same</i> dose. <u>Day 15 of first 2 cycles:</u> If Grade 3 on Day 15, continue IBRANCE at current dose to complete cycle and repeat complete blood count on Day 22. If Grade 4 on Day 22, see Grade 4 dose modification guidelines below.

	Consider dose reduction in cases of prolonged (>1 week) recovery from Grade 3 neutropenia or recurrent Grade 3 neutropenia on Day 1 of subsequent cycles.
Grade 3 neutropenia <sup>†</sup> with fever ≥38.5 °C and/or infection	<u>At any time:</u> Withhold IBRANCE until recovery to Grade ≤2. Resume at the <i>next lower dose</i> .
Grade 4	<u>At any time:</u> Withhold IBRANCE until recovery to Grade ≤2. Resume at the <i>next lower dose</i> .

Grading according to CTCAE 4.0.

CTCAE=Common Terminology Criteria for Adverse Events; LLN=lower limit of normal.

\* Table applies to all hematologic adverse reactions except lymphopenia (unless associated with clinical events, e.g., opportunistic infections).

† Absolute neutrophil count (ANC): Grade 1: ANC < LLN – 1500/mm<sup>3</sup>; Grade 2: ANC 1000 – <1500/mm<sup>3</sup>; Grade 3: ANC 500 – <1000/mm<sup>3</sup>; Grade 4: ANC <500/mm<sup>3</sup>.

**Table 3. Dose Modification and Management – Non-Hematologic Toxicities**

CTCAE Grade	Dose Modifications
Grade 1 or 2	No dose adjustment is required.
Grade ≥3 non-hematologic toxicity (if persisting despite optimal medical treatment)	Withhold until symptoms resolve to: <ul style="list-style-type: none"> <li>• Grade ≤1;</li> <li>• Grade ≤2 (if not considered a safety risk for the patient)</li> </ul> Resume at the <i>next lower dose</i> .

Grading according to CTCAE 4.0.

CTCAE=Common Terminology Criteria for Adverse Events.

Permanently discontinue IBRANCE in patients with severe interstitial lung disease (ILD)/pneumonitis.

Refer to the Full Prescribing Information for coadministered endocrine therapy dose adjustment guidelines in the event of toxicity and other relevant safety information or contraindications.

### **Dose Modifications for Use With Strong CYP3A Inhibitors**

Avoid concomitant use of strong CYP3A inhibitors and consider an alternative concomitant medication with no or minimal CYP3A inhibition. If patients must be coadministered a strong CYP3A inhibitor, reduce the IBRANCE dose to 75 mg once daily. If the strong inhibitor is discontinued, increase the IBRANCE dose (after 3 to 5 half-lives of the inhibitor) to the dose used prior to the initiation of the strong CYP3A inhibitor [see *Drug Interactions (7.1) and Clinical Pharmacology (12.3)*].

### **Dose Modifications for Hepatic Impairment**

No dose adjustment is required for patients with mild or moderate hepatic impairment (Child-Pugh classes A and B). For patients with severe hepatic impairment (Child-Pugh class C), the recommended dose of IBRANCE is 75 mg once daily for 21 consecutive days followed by 7 days off treatment to comprise a complete cycle of 28 days [see *Use in Specific Populations (8.6) and Clinical Pharmacology (12.3)*].

## **3 DOSAGE FORMS AND STRENGTHS**

125 mg tablets: Oval, light purple, film-coated tablets debossed with "Pfizer" on one side and "PBC 125" on the other side.

100 mg tablets: Oval, green, film-coated tablets debossed with "Pfizer" on one side and "PBC 100" on the other side.

75 mg tablets: Round, light purple, film-coated tablets debossed with "Pfizer" on one side and "PBC 75" on the other side.

## 4 CONTRAINDICATIONS

None.

## 5 WARNINGS AND PRECAUTIONS

### 5.1 Neutropenia

Neutropenia was the most frequently reported adverse reaction in Study 1 (PALOMA-2) with an incidence of 80% and Study 2 (PALOMA-3) with an incidence of 83%. A Grade  $\geq 3$  decrease in neutrophil counts was reported in 66% of patients receiving IBRANCE plus letrozole in Study 1 and 66% of patients receiving IBRANCE plus fulvestrant in Study 2. In Study 1 and 2, the median time to first episode of any grade neutropenia was 15 days and the median duration of Grade  $\geq 3$  neutropenia was 7 days [see *Adverse Reactions* (6.1)].

Monitor complete blood counts prior to starting IBRANCE therapy and at the beginning of each cycle, as well as on Day 15 of the first 2 cycles, and as clinically indicated. Dose interruption, dose reduction, or delay in starting treatment cycles is recommended for patients who develop Grade 3 or 4 neutropenia [see *Dosage and Administration* (2.2)].

Febrile neutropenia has been reported in 1.8% of patients exposed to IBRANCE across Studies 1 and 2. One death due to neutropenic sepsis was observed in Study 2. Physicians should inform patients to promptly report any episodes of fever [see *Patient Counseling Information* (17)].

### 5.2 Interstitial Lung Disease (ILD)/Pneumonitis

Severe, life-threatening, or fatal interstitial lung disease (ILD) and/or pneumonitis can occur in patients treated with cyclin-dependent kinase 4/6 (CDK4/6) inhibitors, including IBRANCE when taken in combination with endocrine therapy.

Across clinical trials (PALOMA-1, PALOMA-2, PALOMA-3), 1.0% of IBRANCE-treated patients had ILD/pneumonitis of any grade, 0.1% had Grade 3 or 4 and no fatal cases were reported. Additional cases of ILD/pneumonitis have been observed in the postmarketing setting, with fatalities reported [see *Adverse Reactions* (6.2)].

Monitor patients for pulmonary symptoms indicative of ILD/pneumonitis (e.g. hypoxia, cough, dyspnea). In patients who have new or worsening respiratory symptoms and are suspected to have developed pneumonitis, interrupt IBRANCE immediately and evaluate the patient. Permanently discontinue IBRANCE in patients with severe ILD or pneumonitis [see *Dosage and Administration* (2.2)].

### 5.3 Embryo-Fetal Toxicity

Based on findings from animal studies and its mechanism of action, IBRANCE can cause fetal harm when administered to a pregnant woman. In animal reproduction studies, administration of palbociclib to pregnant rats and rabbits during organogenesis resulted in embryo-fetal toxicity at maternal exposures that were  $\geq 4$  times the human clinical exposure based on area under the curve (AUC). Advise pregnant women of the potential risk to a fetus. Advise females of reproductive potential to use effective contraception during treatment with IBRANCE and for at least 3 weeks after the last dose [see *Use in Specific Populations* (8.1 and 8.3) and *Clinical Pharmacology* (12.1)].

## 6 ADVERSE REACTIONS

The following clinically significant adverse reactions are described elsewhere in the labeling:

- Neutropenia [see Warnings and Precautions (5.1)]
- ILD/Pneumonitis [see Warnings and Precautions (5.2)]

## 6.1 Clinical Studies Experience

Because clinical trials are conducted under varying conditions, the adverse reaction rates observed cannot be directly compared to rates in other trials and may not reflect the rates observed in clinical practice.

### **Study 1: IBRANCE plus Letrozole**

#### **Patients with estrogen receptor (ER)-positive, HER2-negative advanced or metastatic breast cancer for initial endocrine based therapy**

The safety of IBRANCE (125 mg/day) plus letrozole (2.5 mg/day) versus placebo plus letrozole was evaluated in Study 1 (PALOMA-2). The data described below reflect exposure to IBRANCE in 444 out of 666 patients with ER-positive, HER2-negative advanced breast cancer who received at least 1 dose of IBRANCE plus letrozole in Study 1. The median duration of treatment for IBRANCE plus letrozole was 19.8 months while the median duration of treatment for placebo plus letrozole arm was 13.8 months.

Dose reductions due to an adverse reaction of any grade occurred in 36% of patients receiving IBRANCE plus letrozole. No dose reduction was allowed for letrozole in Study 1.

Permanent discontinuation associated with an adverse reaction occurred in 43 of 444 (9.7%) patients receiving IBRANCE plus letrozole and in 13 of 222 (5.9%) patients receiving placebo plus letrozole. Adverse reactions leading to permanent discontinuation for patients receiving IBRANCE plus letrozole included neutropenia (1.1%) and alanine aminotransferase increase (0.7%).

The most common adverse reactions ( $\geq 10\%$ ) of any grade reported in patients in the IBRANCE plus letrozole arm by descending frequency were neutropenia, infections, leukopenia, fatigue, nausea, alopecia, stomatitis, diarrhea, anemia, rash, asthenia, thrombocytopenia, vomiting, decreased appetite, dry skin, pyrexia, and dysgeusia.

The most frequently reported Grade  $\geq 3$  adverse reactions ( $\geq 5\%$ ) in patients receiving IBRANCE plus letrozole by descending frequency were neutropenia, leukopenia, infections, and anemia.

Adverse reactions ( $\geq 10\%$ ) reported in patients who received IBRANCE plus letrozole or placebo plus letrozole in Study 1 are listed in Table 4.

**Table 4. Adverse Reactions ( $\geq 10\%$ ) in Study 1**

Adverse Reaction	IBRANCE plus Letrozole (N=444)			Placebo plus Letrozole (N=222)		
	All Grades %	Grade 3 %	Grade 4 %	All Grades %	Grade 3 %	Grade 4 %
Infections and infestations						
Infections*	60 <sup>†</sup>	6	1	42	3	0
Blood and lymphatic system disorders						
Neutropenia	80	56	10	6	1	1
Leukopenia	39	24	1	2	0	0
Anemia	24	5	<1	9	2	0
Thrombocytopenia	16	1	<1	1	0	0
Metabolism and nutrition disorders						
Decreased appetite	15	1	0	9	0	0

Nervous system disorders						
Dysgeusia	10	0	0	5	0	0
Gastrointestinal disorders						
Stomatitis <sup>‡</sup>	30	1	0	14	0	0
Nausea	35	<1	0	26	2	0
Diarrhea	26	1	0	19	1	0
Vomiting	16	1	0	17	1	0
Skin and subcutaneous tissue disorders						
Alopecia	33 <sup>§</sup>	N/A	N/A	16 <sup>¶</sup>	N/A	N/A
Rash <sup>#</sup>	18	1	0	12	1	0
Dry skin	12	0	0	6	0	0
General disorders and administration site conditions						
Fatigue	37	2	0	28	1	0
Asthenia	17	2	0	12	0	0
Pyrexia	12	0	0	9	0	0

Grading according to CTCAE 4.0.

CTCAE=Common Terminology Criteria for Adverse Events; N=number of patients; N/A=not applicable;

\* Infections includes all reported preferred terms (PTs) that are part of the System Organ Class Infections and infestations.

† Most common infections (≥1%) include: nasopharyngitis, upper respiratory tract infection, urinary tract infection, oral herpes, sinusitis, rhinitis, bronchitis, influenza, pneumonia, gastroenteritis, conjunctivitis, herpes zoster, pharyngitis, cellulitis, cystitis, lower respiratory tract infection, tooth infection, gingivitis, skin infection, gastroenteritis viral, respiratory tract infection, respiratory tract infection viral, and folliculitis.

‡ Stomatitis includes: aphthous stomatitis, cheilitis, glossitis, glossodynia, mouth ulceration, mucosal inflammation, oral pain, oral discomfort, oropharyngeal pain, and stomatitis.

§ Grade 1 events – 30%; Grade 2 events – 3%.

¶ Grade 1 events – 15%; Grade 2 events – 1%.

# Rash includes the following PTs: rash, rash maculo-papular, rash pruritic, rash erythematous, rash papular, dermatitis, dermatitis acneiform, and toxic skin eruption.

Additional adverse reactions occurring at an overall incidence of <10.0% of patients receiving IBRANCE plus letrozole in Study 1 included alanine aminotransferase increased (9.9%), aspartate aminotransferase increased (9.7%), epistaxis (9.2%), lacrimation increased (5.6%), dry eye (4.1%), vision blurred (3.6%), and febrile neutropenia (2.5%).

**Table 5. Laboratory Abnormalities in Study 1**

Laboratory Abnormality	IBRANCE plus Letrozole (N=444)			Placebo plus Letrozole (N=222)		
	All Grades %	Grade 3 %	Grade 4 %	All Grades %	Grade 3 %	Grade 4 %
WBC decreased	97	35	1	25	1	0
Neutrophils decreased	95	56	12	20	1	1
Anemia	78	6	0	42	2	0
Platelets decreased	63	1	1	14	0	0
Aspartate aminotransferase increased	52	3	0	34	1	0
Alanine aminotransferase	43	3	<1	30	0	0

increased	43	2	<1	30	0	0
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N=number of patients; WBC=white blood cells.

## **Study 2: IBRANCE plus Fulvestrant**

### **Patients with HR-positive, HER2-negative advanced or metastatic breast cancer who have had disease progression on or after prior adjuvant or metastatic endocrine therapy**

The safety of IBRANCE (125 mg/day) plus fulvestrant (500 mg) versus placebo plus fulvestrant was evaluated in Study 2 (PALOMA-3). The data described below reflect exposure to IBRANCE in 345 out of 517 patients with HR-positive, HER2-negative advanced or metastatic breast cancer who received at least 1 dose of IBRANCE plus fulvestrant in Study 2. The median duration of treatment for IBRANCE plus fulvestrant was 10.8 months while the median duration of treatment for placebo plus fulvestrant arm was 4.8 months.

Dose reductions due to an adverse reaction of any grade occurred in 36% of patients receiving IBRANCE plus fulvestrant. No dose reduction was allowed for fulvestrant in Study 2.

Permanent discontinuation associated with an adverse reaction occurred in 19 of 345 (6%) patients receiving IBRANCE plus fulvestrant, and in 6 of 172 (3%) patients receiving placebo plus fulvestrant. Adverse reactions leading to discontinuation for those patients receiving IBRANCE plus fulvestrant included fatigue (0.6%), infections (0.6%), and thrombocytopenia (0.6%).

The most common adverse reactions ( $\geq 10\%$ ) of any grade reported in patients in the IBRANCE plus fulvestrant arm by descending frequency were neutropenia, leukopenia, infections, fatigue, nausea, anemia, stomatitis, diarrhea, thrombocytopenia, vomiting, alopecia, rash, decreased appetite, and pyrexia.

The most frequently reported Grade  $\geq 3$  adverse reactions ( $\geq 5\%$ ) in patients receiving IBRANCE plus fulvestrant in descending frequency were neutropenia and leukopenia.

Adverse reactions ( $\geq 10\%$ ) reported in patients who received IBRANCE plus fulvestrant or placebo plus fulvestrant in Study 2 are listed in Table 6.

**Table 6. Adverse Reactions ( $\geq 10\%$ ) in Study 2**

Adverse Reaction	IBRANCE plus Fulvestrant (N=345)			Placebo plus Fulvestrant (N=172)		
	All Grades	Grade 3	Grade 4	All Grades	Grade 3	Grade 4
	%	%	%	%	%	%
Infections and infestations						
Infections*	47 <sup>†</sup>	3	1	31	3	0
Blood and lymphatic system disorders						
Neutropenia	83	55	11	4	1	0
Leukopenia	53	30	1	5	1	1
Anemia	30	4	0	13	2	0
Thrombocytopenia	23	2	1	0	0	0
Metabolism and nutrition disorders						
Decreased appetite	16	1	0	8	1	0
Gastrointestinal disorders						
Nausea	34	0	0	28	1	0
Stomatitis <sup>‡</sup>	28	1	0	13	0	0
Diarrhea	24	0	0	19	1	0
Vomiting	19	1	0	15	1	0



Skin and subcutaneous tissue disorders						
Alopecia	18 <sup>§</sup>	N/A	N/A	6 <sup>¶</sup>	N/A	N/A
Rash <sup>#</sup>	17	1	0	6	0	0
General disorders and administration site conditions						
Fatigue	41	2	0	29	1	0
Pyrexia	13	<1	0	5	0	0

Grading according to CTCAE 4.0.

CTCAE=Common Terminology Criteria for Adverse Events; N=number of patients; N/A=not applicable.

\* Infections includes all reported preferred terms (PTs) that are part of the System Organ Class Infections and infestations.

† Most common infections (≥1%) include: nasopharyngitis, upper respiratory infection, urinary tract infection, bronchitis, rhinitis, influenza, conjunctivitis, sinusitis, pneumonia, cystitis, oral herpes, respiratory tract infection, gastroenteritis, tooth infection, pharyngitis, eye infection, herpes simplex, and paronychia.

‡ Stomatitis includes: aphthous stomatitis, cheilitis, glossitis, glossodynia, mouth ulceration, mucosal inflammation, oral pain, oropharyngeal discomfort, oropharyngeal pain, stomatitis.

§ Grade 1 events – 17%; Grade 2 events – 1%.

¶ Grade 1 events – 6%.

# Rash includes: rash, rash maculo-papular, rash pruritic, rash erythematous, rash papular, dermatitis, dermatitis acneiform, toxic skin eruption.

Additional adverse reactions occurring at an overall incidence of <10.0% of patients receiving IBRANCE plus fulvestrant in Study 2 included asthenia (7.5%), aspartate aminotransferase increased (7.5%), dysgeusia (6.7%), epistaxis (6.7%), lacrimation increased (6.4%), dry skin (6.1%), alanine aminotransferase increased (5.8%), vision blurred (5.8%), dry eye (3.8%), and febrile neutropenia (0.9%).

**Table 7. Laboratory Abnormalities in Study 2**

Laboratory Abnormality	IBRANCE plus Fulvestrant (N=345)			Placebo plus Fulvestrant (N=172)		
	All Grades %	Grade 3 %	Grade 4 %	All Grades %	Grade 3 %	Grade 4 %
WBC decreased	99	45	1	26	0	1
Neutrophils decreased	96	56	11	14	0	1
Anemia	78	3	0	40	2	0
Platelets decreased	62	2	1	10	0	0
Aspartate aminotransferase increased	43	4	0	48	4	0
Alanine aminotransferase increased	36	2	0	34	0	0

N=number of patients; WBC=white blood cells.

## 6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of IBRANCE. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

*Respiratory Disorders*: Interstitial lung disease (ILD)/non-infectious pneumonitis.

### **Male patients with HR-positive, HER2-negative advanced or metastatic breast cancer**

Based on limited data from postmarketing reports and electronic health records, the safety profile for men treated with IBRANCE is consistent with the safety profile in women treated with IBRANCE.

## **7 DRUG INTERACTIONS**

Palbociclib is primarily metabolized by CYP3A and sulfotransferase (SULT) enzyme SULT2A1. In vivo, palbociclib is a time-dependent inhibitor of CYP3A.

### **7.1 Agents That May Increase Palbociclib Plasma Concentrations**

#### **Effect of CYP3A Inhibitors**

Coadministration of a strong CYP3A inhibitor (itraconazole) increased the plasma exposure of palbociclib in healthy subjects by 87%. Avoid concomitant use of strong CYP3A inhibitors (e.g., clarithromycin, indinavir, itraconazole, ketoconazole, lopinavir/ritonavir, nefazodone, nelfinavir, posaconazole, ritonavir, saquinavir, telaprevir, telithromycin, and voriconazole). Avoid grapefruit or grapefruit juice during IBRANCE treatment. If coadministration of IBRANCE with a strong CYP3A inhibitor cannot be avoided, reduce the dose of IBRANCE [see *Dosage and Administration* (2.2) and *Clinical Pharmacology* (12.3)].

### **7.2 Agents That May Decrease Palbociclib Plasma Concentrations**

#### **Effect of CYP3A Inducers**

Coadministration of a strong CYP3A inducer (rifampin) decreased the plasma exposure of palbociclib in healthy subjects by 85%. Avoid concomitant use of strong CYP3A inducers (e.g., phenytoin, rifampin, carbamazepine, enzalutamide, and St John's Wort) [see *Clinical Pharmacology* (12.3)].

### **7.3 Drugs That May Have Their Plasma Concentrations Altered by Palbociclib**

Coadministration of midazolam with multiple doses of IBRANCE increased the midazolam plasma exposure by 61%, in healthy subjects, compared to administration of midazolam alone. The dose of the sensitive CYP3A substrate with a narrow therapeutic index (e.g., alfentanil, cyclosporine, dihydroergotamine, ergotamine, everolimus, fentanyl, pimozide, quinidine, sirolimus, and tacrolimus) may need to be reduced, as IBRANCE may increase its exposure [see *Clinical Pharmacology* (12.3)].

## **8 USE IN SPECIFIC POPULATIONS**

### **8.1 Pregnancy**

#### **Risk Summary**

Based on findings from animal studies and its mechanism of action, IBRANCE can cause fetal harm when administered to a pregnant woman [see *Clinical Pharmacology* (12.1)]. There are no available data in pregnant women to inform the drug-associated risk. In animal reproduction studies, administration of palbociclib to pregnant rats and rabbits during organogenesis resulted in embryo-fetal toxicity at maternal exposures that were  $\geq 4$  times the human clinical exposure based on AUC (see *Data*). Advise pregnant women of the potential risk to a fetus.

The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2%–4% and 15%–20%, respectively.

#### **Data**

## Animal Data

In a fertility and early embryonic development study in female rats, palbociclib was administered orally for 15 days before mating through to Day 7 of pregnancy, which did not cause embryo toxicity at doses up to 300 mg/kg/day with maternal systemic exposures approximately 4 times the human exposure (AUC) at the recommended dose.

In embryo-fetal development studies in rats and rabbits, pregnant animals received oral doses of palbociclib up to 300 mg/kg/day and 20 mg/kg/day, respectively, during the period of organogenesis. The maternally toxic dose of 300 mg/kg/day was fetotoxic in rats, resulting in reduced fetal body weights. At doses  $\geq 100$  mg/kg/day in rats, there was an increased incidence of a skeletal variation (increased incidence of a rib present at the seventh cervical vertebra). At the maternally toxic dose of 20 mg/kg/day in rabbits, there was an increased incidence of skeletal variations, including small phalanges in the forelimb. At 300 mg/kg/day in rats and 20 mg/kg/day in rabbits, the maternal systemic exposures were approximately 4 and 9 times the human exposure (AUC) at the recommended dose, respectively.

CDK4/6 double knockout mice have been reported to die in late stages of fetal development (gestation Day 14.5 until birth) due to severe anemia. However, knockout mouse data may not be predictive of effects in humans due to differences in degree of target inhibition.

## **8.2 Lactation**

### **Risk Summary**

There is no information regarding the presence of palbociclib in human milk, its effects on milk production, or the breastfed infant. Because of the potential for serious adverse reactions in breastfed infants from IBRANCE, advise a lactating woman not to breastfeed during treatment with IBRANCE and for 3 weeks after the last dose.

## **8.3 Females and Males of Reproductive Potential**

### **Pregnancy Testing**

Based on animal studies, IBRANCE can cause fetal harm when administered to a pregnant woman [*see Use in Specific Populations (8.1)*]. Females of reproductive potential should have a pregnancy test prior to starting treatment with IBRANCE.

### **Contraception**

#### Females

IBRANCE can cause fetal harm when administered to a pregnant woman [*see Use in Specific Populations (8.1)*]. Advise females of reproductive potential to use effective contraception during treatment with IBRANCE and for at least 3 weeks after the last dose.

#### Males

1. Because of the potential for genotoxicity, advise male patients with female partners of reproductive potential to use effective contraception during treatment with IBRANCE and for 3 months after the last dose [*see Nonclinical Toxicology (13.1)*].

### **Infertility**

#### Males

Based on animal studies, IBRANCE may impair fertility in males of reproductive potential [*see Nonclinical Toxicology (13.1)*].

## **8.4 Pediatric Use**

The safety and efficacy of IBRANCE in pediatric patients have not been studied.

Altered glucose metabolism (glycosuria, hyperglycemia, decreased insulin) associated with changes in the pancreas (islet cell vacuolation), eye (cataracts, lens degeneration), kidney (tubule vacuolation, chronic progressive nephropathy) and adipose tissue (atrophy) were identified in a 27 week repeat-dose toxicology study in rats that were immature at the beginning of the studies and were most prevalent in males at oral palbociclib doses  $\geq 30$  mg/kg/day (approximately 11 times the adult human exposure [AUC] at the recommended dose). Some of these findings (glycosuria/hyperglycemia, pancreatic islet cell vacuolation, and kidney tubule vacuolation) were present with lower incidence and severity in a 15 week repeat-dose toxicology study in immature rats. Altered glucose metabolism or associated changes in the pancreas, eye, kidney and adipose tissue were not identified in a 27-week repeat-dose toxicology study in rats that were mature at the beginning of the study and in dogs in repeat-dose toxicology studies up to 39 weeks duration.

Toxicities in teeth independent of altered glucose metabolism were observed in rats. Administration of 100 mg/kg palbociclib for 27 weeks (approximately 15 times the adult human exposure [AUC] at the recommended dose) resulted in abnormalities in growing incisor teeth (discolored, ameloblast degeneration/necrosis, mononuclear cell infiltrate). Other toxicities of potential concern to pediatric patients have not been evaluated in juvenile animals.

## 8.5 Geriatric Use

Of 444 patients who received IBRANCE in Study 1, 181 patients (41%) were  $\geq 65$  years of age and 48 patients (11%) were  $\geq 75$  years of age. Of 347 patients who received IBRANCE in Study 2, 86 patients (25%) were  $\geq 65$  years of age and 27 patients (8%) were  $\geq 75$  years of age. No overall differences in safety or effectiveness of IBRANCE were observed between these patients and younger patients.

## 8.6 Hepatic Impairment

No dose adjustment is required in patients with mild or moderate hepatic impairment (Child-Pugh classes A and B). For patients with severe hepatic impairment (Child-Pugh class C), the recommended dose of IBRANCE is 75 mg once daily for 21 consecutive days followed by 7 days off treatment to comprise a complete cycle of 28 days [see *Dosage and Administration (2.2)*]. Based on a pharmacokinetic trial in subjects with varying degrees of hepatic function, the palbociclib unbound exposure (unbound AUC<sub>INF</sub>) decreased by 17% in subjects with mild hepatic impairment (Child-Pugh class A), and increased by 34% and 77% in subjects with moderate (Child-Pugh class B) and severe (Child-Pugh class C) hepatic impairment, respectively, relative to subjects with normal hepatic function. Peak palbociclib unbound exposure (unbound C<sub>max</sub>) increased by 7%, 38% and 72% for mild, moderate and severe hepatic impairment, respectively, relative to subjects with normal hepatic function [see *Clinical Pharmacology (12.3)*].

Review the Full Prescribing Information for the aromatase inhibitor or fulvestrant for dose modifications related to hepatic impairment.

## 8.7 Renal Impairment

No dose adjustment is required in patients with mild, moderate, or severe renal impairment (CrCl  $>15$  mL/min).

Based on a pharmacokinetic trial in subjects with varying degrees of renal function, the total palbociclib exposure (AUC<sub>INF</sub>) increased by 39%, 42%, and 31% with mild ( $60 \text{ mL/min} \leq \text{CrCl} < 90 \text{ mL/min}$ ), moderate ( $30 \text{ mL/min} \leq \text{CrCl} < 60 \text{ mL/min}$ ), and severe ( $\text{CrCl} < 30 \text{ mL/min}$ ) renal impairment, respectively, relative to subjects with normal renal function. Peak palbociclib exposure (C<sub>max</sub>) increased by 17%, 12%, and 15% for mild, moderate, and severe renal impairment, respectively, relative to subjects with normal renal function.

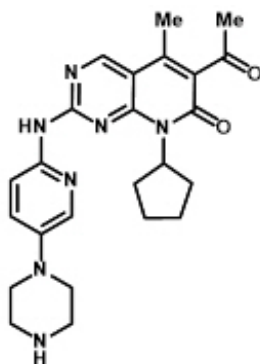
The pharmacokinetics of palbociclib have not been studied in patients requiring hemodialysis [see *Clinical Pharmacology (12.3)*].

## 10 OVERDOSAGE

There is no known antidote for IBRANCE. The treatment of overdose of IBRANCE should consist of general supportive measures.

## 11 DESCRIPTION

IBRANCE tablets for oral administration contain 125 mg, 100 mg, or 75 mg of palbociclib, a kinase inhibitor. The molecular formula for palbociclib is  $C_{24}H_{29}N_7O_2$ . The molecular weight is 447.54 daltons. The chemical name is 6-acetyl-8-cyclopentyl-5-methyl-2-{{[5-(piperazin-1-yl)pyridin-2-yl]amino}pyrido[2,3-*d*]pyrimidin-7(8*H*)-one, and its structural formula is:



Palbociclib is a yellow to orange powder. At or below pH 4, palbociclib behaves as a high-solubility compound. Above pH 4, the solubility of the drug substance reduces significantly.

*Inactive Ingredients:* Microcrystalline cellulose, colloidal silicon dioxide, crospovidone, magnesium stearate, succinic acid, HPMC 2910/hypromellose, titanium dioxide, triacetin, and FD&C Blue #2/Indigo Carmine Aluminum Lake. In addition, the 75 mg and 125 mg tablets contain red iron oxide and the 100 mg tablets contain yellow iron oxide.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Palbociclib is an inhibitor of cyclin-dependent kinases (CDK) 4 and 6. Cyclin D1 and CDK4/6 are downstream of signaling pathways which lead to cellular proliferation. In vitro, palbociclib reduced cellular proliferation of estrogen receptor (ER)-positive breast cancer cell lines by blocking progression of the cell from G1 into S phase of the cell cycle. Treatment of breast cancer cell lines with the combination of palbociclib and antiestrogens leads to decreased retinoblastoma (Rb) protein phosphorylation resulting in reduced E2F expression and signaling, and increased growth arrest compared to treatment with each drug alone. In vitro treatment of ER-positive breast cancer cell lines with the combination of palbociclib and antiestrogens led to increased cell senescence compared to each drug alone, which was sustained for up to 6 days following palbociclib removal and was greater if antiestrogen treatment was continued. In vivo studies using a patient-derived ER-positive breast cancer xenograft model demonstrated that the combination of palbociclib and letrozole increased the inhibition of Rb phosphorylation, downstream signaling, and tumor growth compared to each drug alone.

Human bone marrow mononuclear cells treated with palbociclib in the presence or absence of an anti-estrogen in vitro did not become senescent and resumed proliferation following palbociclib withdrawal.

### 12.2 Pharmacodynamics

#### Cardiac Electrophysiology

The effect of palbociclib on the QT interval corrected for heart rate (QTc) was evaluated using time-matched electrocardiograms (ECGs) evaluating the change from baseline and corresponding pharmacokinetic data in 77 patients with breast cancer. Palbociclib had no large effect on QTc (i.e., >20 ms) at 125 mg once daily for 21 consecutive days followed by 7 days off treatment to comprise a complete cycle of 28 days.

### 12.3 Pharmacokinetics

The pharmacokinetics (PK) of palbociclib were characterized in patients with solid tumors including advanced breast cancer and in healthy subjects.

#### Absorption

The maximum observed concentration ( $C_{\max}$ ) of palbociclib is generally observed between 4 to 12 hours (time to reach maximum concentration,  $T_{\max}$ ) following oral administration of IBRANCE tablets. The mean absolute bioavailability of IBRANCE after an oral 125 mg dose is 46%. In the dosing range of 25 mg to 225 mg, the AUC and  $C_{\max}$  increased proportionally with dose in general. Steady state was achieved within 8 days following repeated once daily dosing. With repeated once daily administration, palbociclib accumulated with a median accumulation ratio of 2.4 (range 1.5 to 4.2).

**Food Effect:** The area under the concentration-time curve from zero to infinity ( $AUC_{\text{INF}}$ ) and  $C_{\max}$  of palbociclib increased by 22% and 26%, respectively, when IBRANCE tablets were given with a high-fat, high-calorie meal (approximately 800 to 1000 calories with 150, 250, and 500 to 600 calories from protein, carbohydrate, and fat, respectively), and by 9% and 10%, respectively, when IBRANCE tablets were given with a moderate-fat, standard-calorie meal (approximately 500 to 700 calories with 75 to 105, 250 to 350 and 175 to 245 calories from protein, carbohydrate, and fat, respectively), compared to IBRANCE tablets given under overnight fasted conditions.

#### Distribution

Binding of palbociclib to human plasma proteins in vitro was approximately 85%, with no concentration dependence over the concentration range of 500 ng/mL to 5000 ng/mL. The mean fraction unbound ( $f_u$ ) of palbociclib in human plasma in vivo increased incrementally with worsening hepatic function. There was no obvious trend in the mean palbociclib  $f_u$  in human plasma in vivo with worsening renal function. The geometric mean apparent volume of distribution ( $V_z/F$ ) was 2583 L with a coefficient of variation (CV) of 26%.

#### Metabolism

In vitro and in vivo studies indicated that palbociclib undergoes hepatic metabolism in humans. Following oral administration of a single 125 mg dose of [ $^{14}\text{C}$ ]palbociclib to humans, the primary metabolic pathways for palbociclib involved oxidation and sulfonation, with acylation and glucuronidation contributing as minor pathways. Palbociclib was the major circulating drug-derived entity in plasma (23%). The major circulating metabolite was a glucuronide conjugate of palbociclib, although it only represented 1.5% of the administered dose in the excreta. Palbociclib was extensively metabolized with unchanged drug accounting for 2.3% and 6.9% of radioactivity in feces and urine, respectively. In feces, the sulfamic acid conjugate of palbociclib was the major drug-related component, accounting for 26% of the administered dose. In vitro studies with human hepatocytes, liver cytosolic and S9 fractions, and recombinant SULT enzymes indicated that CYP3A and SULT2A1 are mainly involved in the metabolism of palbociclib.

#### Elimination

The geometric mean apparent oral clearance ( $CL/F$ ) of palbociclib was 63.1 L/hr (29% CV), and the mean ( $\pm$  standard deviation) plasma elimination half-life was 29 ( $\pm 5$ ) hours in patients with advanced breast cancer. In 6 healthy male subjects given a single oral dose of [ $^{14}\text{C}$ ] palbociclib, a median of 91.6% of the total administered radioactive dose was recovered in 15 days; feces (74.1% of dose) was the major route of excretion, with 17.5% of the dose recovered in urine. The majority of the material was excreted as metabolites.

## Age, Gender, and Body Weight

Based on a population pharmacokinetic analysis in 183 patients with cancer (50 male and 133 female patients, age range from 22 to 89 years, and body weight range from 37.9 to 123 kg), gender had no effect on the exposure of palbociclib, and age and body weight had no clinically important effect on the exposure of palbociclib.

## Pediatric Population

Pharmacokinetics of IBRANCE have not been evaluated in patients <18 years of age.

## Hepatic Impairment

Data from a pharmacokinetic trial in subjects with varying degrees of hepatic impairment indicate that palbociclib unbound  $AUC_{INF}$  decreased 17% in subjects with mild hepatic impairment (Child-Pugh class A), and increased by 34% and 77% in subjects with moderate (Child-Pugh class B) and severe (Child-Pugh class C) hepatic impairment, respectively, relative to subjects with normal hepatic function. Palbociclib unbound  $C_{max}$  increased by 7%, 38% and 72% for mild, moderate and severe hepatic impairment, respectively, relative to subjects with normal hepatic function. In addition, based on a population pharmacokinetic analysis that included 183 patients, where 40 patients had mild hepatic impairment based on National Cancer Institute (NCI) classification (total bilirubin  $\leq$  ULN and AST  $>$  ULN, or total bilirubin  $>1.0$  to  $1.5 \times$  ULN and any AST), mild hepatic impairment had no effect on the exposure of palbociclib, further supporting the findings from the dedicated hepatic impairment study.

## Renal Impairment

Data from a pharmacokinetic trial in subjects with varying degrees of renal impairment indicate that palbociclib  $AUC_{INF}$  increased by 39%, 42%, and 31% with mild ( $60 \text{ mL/min} \leq \text{CrCl} < 90 \text{ mL/min}$ ), moderate ( $30 \text{ mL/min} \leq \text{CrCl} < 60 \text{ mL/min}$ ), and severe ( $\text{CrCl} < 30 \text{ mL/min}$ ) renal impairment, respectively, relative to subjects with normal renal function. Peak palbociclib exposure ( $C_{max}$ ) increased by 17%, 12%, and 15% for mild, moderate, and severe renal impairment, respectively, relative to subjects with normal renal function. In addition, based on a population pharmacokinetic analysis that included 183 patients where 73 patients had mild renal impairment and 29 patients had moderate renal impairment, mild and moderate renal impairment had no effect on the exposure of palbociclib. The pharmacokinetics of palbociclib have not been studied in patients requiring hemodialysis.

## Drug Interactions

In vitro data indicate that CYP3A and SULT enzyme SULT2A1 are mainly involved in the metabolism of palbociclib. Palbociclib is a weak time-dependent inhibitor of CYP3A following daily 125 mg dosing to steady state in humans. In vitro, palbociclib is not an inhibitor of CYP1A2, 2A6, 2B6, 2C8, 2C9, 2C19, and 2D6, and is not an inducer of CYP1A2, 2B6, 2C8, and 3A4 at clinically relevant concentrations.

**CYP3A Inhibitors:** Data from a drug interaction trial in healthy subjects (N=12) indicate that coadministration of multiple 200 mg daily doses of itraconazole with a single 125 mg IBRANCE dose increased palbociclib  $AUC_{INF}$  and the  $C_{max}$  by approximately 87% and 34%, respectively, relative to a single 125 mg IBRANCE dose given alone [see *Drug Interactions* (7.1)].

**CYP3A Inducers:** Data from a drug interaction trial in healthy subjects (N=15) indicate that coadministration of multiple 600 mg daily doses of rifampin, a strong CYP3A inducer, with a single 125 mg IBRANCE dose decreased palbociclib  $AUC_{INF}$  and  $C_{max}$  by 85% and 70%, respectively, relative to a single 125 mg IBRANCE dose given alone. Data from a drug interaction trial in healthy subjects (N=14) indicate that coadministration of multiple 400 mg daily doses of modafinil, a moderate CYP3A inducer, with a single 125 mg IBRANCE dose decreased palbociclib  $AUC_{INF}$  and  $C_{max}$  by 32% and 11%, respectively, relative to a single 125 mg IBRANCE dose given alone [see *Drug Interactions* (7.2)].

**CYP3A Substrates:** Palbociclib is a weak time-dependent inhibitor of CYP3A following daily 125 mg dosing to steady state in humans. In a drug interaction trial in healthy subjects (N=26), coadministration of midazolam with multiple doses of IBRANCE increased the midazolam  $AUC_{INF}$  and the  $C_{max}$  values

by 61% and 37%, respectively, as compared to administration of midazolam alone [see *Drug Interactions* (7.3)].

*Gastric pH Elevating Medications:* In a drug interaction trial in healthy subjects, coadministration of a single 125 mg IBRANCE tablet with multiple doses of the proton pump inhibitor (PPI) rabeprazole under overnight fasted conditions had no effect on the rate and extent of absorption of palbociclib when compared to a single 125 mg IBRANCE tablet administered alone. Given the reduced effect on gastric pH of H<sub>2</sub>-receptor antagonists and local antacids compared to PPIs, an effect of these classes of acid reducing agents on palbociclib exposure is not expected.

*Letrozole:* Data from a clinical trial in patients with breast cancer showed that there was no drug interaction between palbociclib and letrozole when the 2 drugs were coadministered.

*Fulvestrant:* Data from a clinical trial in patients with breast cancer showed that there was no clinically relevant drug interaction between palbociclib and fulvestrant when the 2 drugs were coadministered.

*Goserelin:* Data from a clinical trial in patients with breast cancer showed that there was no clinically relevant drug interaction between palbociclib and goserelin when the 2 drugs were coadministered.

*Anastrozole or Exemestane:* No clinical data are available to evaluate drug interactions between anastrozole or exemestane and palbociclib. A clinically significant drug interaction between anastrozole or exemestane and palbociclib is not expected based on analyses of the effects of anastrozole, exemestane and palbociclib on or by metabolic pathways or transporter systems.

*Effect of Palbociclib on Transporters:* In vitro evaluations indicated that palbociclib has a low potential to inhibit the activities of drug transporters organic anion transporter (OAT)1, OAT3, organic cation transporter (OCT)2, and organic anion transporting polypeptide (OATP)1B1, OATP1B3 at clinically relevant concentrations. In vitro, palbociclib has the potential to inhibit OCT1 at clinically relevant concentrations, as well as the potential to inhibit P-glycoprotein (P-gp) or breast cancer resistance protein (BCRP) in the gastrointestinal tract at the proposed dose.

*Effect of Transporters on Palbociclib:* Based on in vitro data, P-gp and BCRP mediated transport are unlikely to affect the extent of oral absorption of palbociclib at therapeutic doses.

## 13 NONCLINICAL TOXICOLOGY

### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Palbociclib was assessed for carcinogenicity in a 6-month transgenic mouse study and in a 2-year rat study. Oral administration of palbociclib for 2 years resulted in an increased incidence of microglial cell tumors in the central nervous system of male rats at a dose of 30 mg/kg/day (approximately 8 times the human clinical exposure based on AUC). There were no neoplastic findings in female rats at doses up to 200 mg/kg/day (approximately 5 times the human clinical exposure based on AUC). Oral administration of palbociclib to male and female rasH2 transgenic mice for 6 months did not result in increased incidence of neoplasms at doses up to 60 mg/kg/day.

Palbociclib was aneugenic in Chinese Hamster Ovary cells in vitro and in the bone marrow of male rats at doses  $\geq 100$  mg/kg/day for 3 weeks. Palbociclib was not mutagenic in an in vitro bacterial reverse mutation (Ames) assay and was not clastogenic in the in vitro human lymphocyte chromosome aberration assay.

In a fertility study in female rats, palbociclib did not affect mating or fertility at any dose up to 300 mg/kg/day (approximately 4 times human clinical exposure based on AUC) and no adverse effects were observed in the female reproductive tissues in repeat-dose toxicity studies up to 300 mg/kg/day in the rat and 3 mg/kg/day in the dog (approximately 6 times and similar to human exposure [AUC], at the recommended dose, respectively).

The adverse effects of palbociclib on male reproductive function and fertility were observed in the repeat-dose toxicology studies in rats and dogs and a male fertility study in rats. In repeat-dose



toxicology studies, palbociclib-related findings in the testis, epididymis, prostate, and seminal vesicle at  $\geq 30$  mg/kg/day in rats and  $\geq 0.2$  mg/kg/day in dogs included decreased organ weight, atrophy or degeneration, hypospermia, intratubular cellular debris, and decreased secretion. Partial reversibility of male reproductive organ effects was observed in the rat and dog following a 4- and 12-week non-dosing period, respectively. These doses in rats and dogs resulted in approximately  $\geq 10$  and 0.1 times, respectively, the exposure [AUC] in humans at the recommended dose. In the fertility and early embryonic development study in male rats, palbociclib caused no effects on mating but resulted in a slight decrease in fertility in association with lower sperm motility and density at 100 mg/kg/day with projected exposure levels [AUC] of 20 times the exposure in humans at the recommended dose.

## 14 CLINICAL STUDIES

### Study 1: IBRANCE plus Letrozole

#### **Patients with ER-positive, HER2-negative advanced or metastatic breast cancer for initial endocrine based therapy**

Study 1 (PALOMA-2) was an international, randomized, double-blind, parallel-group, multicenter study of IBRANCE plus letrozole versus placebo plus letrozole conducted in postmenopausal women with ER-positive, HER2-negative advanced breast cancer who had not received previous systemic treatment for their advanced disease. A total of 666 patients were randomized 2:1 to IBRANCE plus letrozole or placebo plus letrozole. Randomization was stratified by disease site (visceral versus non-visceral), disease-free interval (de novo metastatic versus  $\leq 12$  months from the end of adjuvant treatment to disease recurrence versus  $> 12$  months from the end of adjuvant treatment to disease recurrence), and nature of prior (neo)adjuvant anticancer therapies (prior hormonal therapies versus no prior hormonal therapy). IBRANCE was given orally at a dose of 125 mg daily for 21 consecutive days followed by 7 days off treatment. Patients received study treatment until objective disease progression, symptomatic deterioration, unacceptable toxicity, death, or withdrawal of consent, whichever occurred first. The major efficacy outcome of the study was investigator-assessed progression-free survival (PFS) evaluated according to Response Evaluation Criteria in Solid Tumors Version 1.1 (RECIST).

Patients enrolled in this study had a median age of 62 years (range 28 to 89). The majority of patients were White (78%), and most patients had an Eastern Cooperative Oncology Group (ECOG) performance status (PS) of 0 or 1 (98%). Forty-eight percent of patients had received chemotherapy and 56% had received antihormonal therapy in the neoadjuvant or adjuvant setting prior to their diagnosis of advanced breast cancer. Thirty-seven percent of patients had no prior systemic therapy in the neoadjuvant or adjuvant setting. The majority of patients (97%) had metastatic disease. Twenty-three percent of patients had bone only disease, and 49% of patients had visceral disease.

Major efficacy results from Study 1 are summarized in Table 8 and Figure 1. Consistent results were observed across patient subgroups of disease-free interval (DFI), disease site, and prior therapy. The treatment effect of the combination on PFS was also supported by an independent review of radiographs. The overall survival (OS) data were not mature at the time of the final PFS analysis (20% of patients had died). Patients will continue to be followed for the final analysis.

**Table 8. Efficacy Results – Study 1 (Investigator Assessment, Intent-to-Treat Population)**

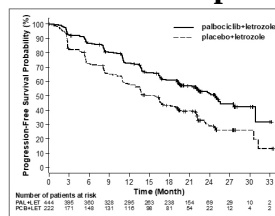
	<b>IBRANCE plus Letrozole</b>	<b>Placebo plus Letrozole</b>
<b>Progression-free survival for ITT</b>	<b>N=444</b>	<b>N=222</b>
Number of PFS events (%)	194 (43.7)	137 (61.7)
Median progression-free survival (months, 95% CI)	24.8 (22.1, NE)	14.5 (12.9, 17.1)
Hazard ratio (95% CI) and p-value	0.576 (0.463, 0.718), $p < 0.0001$	
<b>Objective Response for patients</b>	<b>N=222</b>	<b>N=171</b>

with measurable disease	N=558	N=171
Objective response rate* (%; 95% CI)	55.3 (49.9, 60.7)	44.4 (36.9, 52.2)

CI=confidence interval; ITT=Intent-to-Treat; N=number of patients; NE=not estimable.

\* Response based on confirmed responses.

**Figure 1. Kaplan-Meier Plot of Progression-Free Survival – Study 1 (Investigator Assessment, Intent-to-Treat Population)**



LET=letrozole;  
PAL=palbociclib;  
PCB=placebo.

### **Study 2: IBRANCE plus Fulvestrant**

**Patients with HR-positive, HER2-negative advanced or metastatic breast cancer who have had disease progression on or after prior adjuvant or metastatic endocrine therapy**

Study 2 (PALOMA-3) was an international, randomized, double-blind, parallel group, multicenter study of IBRANCE plus fulvestrant versus placebo plus fulvestrant conducted in women with HR-positive, HER2-negative advanced breast cancer, regardless of their menopausal status, whose disease progressed on or after prior endocrine therapy. A total of 521 pre/postmenopausal women were randomized 2:1 to IBRANCE plus fulvestrant or placebo plus fulvestrant and stratified by documented sensitivity to prior hormonal therapy, menopausal status at study entry (pre/perimenopausal versus postmenopausal), and presence of visceral metastases. IBRANCE was given orally at a dose of 125 mg daily for 21 consecutive days followed by 7 days off treatment. Pre/perimenopausal women were enrolled in the study and received the LHRH agonist goserelin for at least 4 weeks prior to and for the duration of Study 2. Patients continued to receive assigned treatment until objective disease progression, symptomatic deterioration, unacceptable toxicity, death, or withdrawal of consent, whichever occurred first. The major efficacy outcome of the study was investigator-assessed PFS evaluated according to RECIST 1.1.

Patients enrolled in this study had a median age of 57 years (range 29 to 88). The majority of patients on study were White (74%), all patients had an ECOG PS of 0 or 1, and 80% were postmenopausal. All patients had received prior systemic therapy, and 75% of patients had received a previous chemotherapy regimen. Twenty-five percent of patients had received no prior therapy in the metastatic disease setting, 60% had visceral metastases, and 23% had bone only disease.

The results from the investigator-assessed PFS and final OS from Study 2 are summarized in Table 9. The relevant Kaplan-Meier plots are shown in Figures 2 and 3, respectively. Consistent PFS results were observed across patient subgroups of disease site, sensitivity to prior hormonal therapy, and menopausal status. After a median follow-up time of 45 months, the final OS results were not statistically significant.

**Table 9. Efficacy Results – Study 2**

	IBRANCE plus Fulvestrant	Placebo plus Fulvestrant
Progression-free survival for ITT	N=347	N=174

(investigator assessment)	N=347	N=174
Number of PFS events (%)	145 (41.8)	114 (65.5)
Median PFS (months, 95% CI)	9.5 (9.2, 11.0)	4.6 (3.5, 5.6)
Hazard ratio (95% CI) and p-value	0.461 (0.360, 0.591), p<0.0001	
<b>Objective Response for patients with measurable disease (investigator assessment)</b>	<b>N=267</b>	<b>N=138</b>
Objective response rate* (%; 95% CI)	24.6 (19.6, 30.2)	10.9 (6.2, 17.3)
<b>Overall survival for ITT</b>	<b>N=347</b>	<b>N=174</b>
Number of OS events (%)	201 (57.9)	109 (62.6)
Median OS (months, 95% CI)	34.9 (28.8, 40.0)	28.0 (23.6, 34.6)
Hazard ratio (95% CI) and p-value	0.814 (0.644, 1.029), p=0.0857 <sup>†‡</sup>	

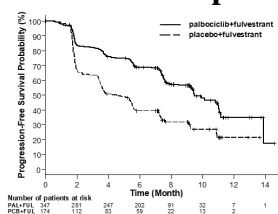
CI=confidence interval; ITT=Intent-to-Treat; N=number of patients; OS=overall survival; PFS=progression-free survival.

\* Responses are based on confirmed responses.

<sup>†</sup> Not statistically significant at the pre-specified 2-sided alpha level of 0.047.

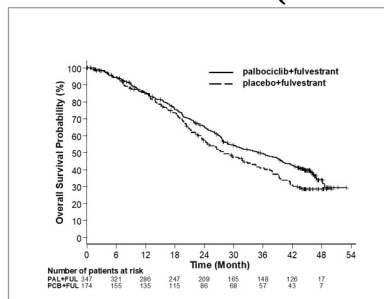
<sup>‡</sup> 2-sided p-value from the log-rank test stratified by the presence of visceral metastases and sensitivity to prior endocrine therapy per randomization.

**Figure 2. Kaplan-Meier Plot of Progression-Free Survival – Study 2 (Investigator Assessment, Intent-to-Treat Population)**



FUL=fulvestrant;  
PAL=palbociclib;  
PCB=placebo.

**Figure 3. Kaplan-Meier Plot of Overall Survival (Intent-to-Treat Population) - Study 2**



FUL=fulvestrant;  
PAL=palbociclib;  
PCB=placebo.

## 16 HOW SUPPLIED/STORAGE AND HANDLING

IBRANCE is supplied in the following strengths and package configurations:

### IBRANCE Tablets

<b>Package Configuration</b>	<b>Tablet Strength (mg)</b>	<b>NDC</b>	<b>Tablet Description</b>
Monthly box containing 3 weekly blister packs of 7 tablets each (21 tablets total)	125	NDC 0069-0688-03	Oval, light purple, film-coated tablets debossed with "Pfizer" on one side and "PBC 125" on the other side.
Monthly box containing 3 weekly blister packs of 7 tablets each (21 tablets total)	100	NDC 0069-0486-03	Oval, green, film-coated tablets debossed with "Pfizer" on one side and "PBC 100" on the other side.
Monthly box containing 3 weekly blister packs of 7 tablets each (21 tablets total)	75	NDC 0069-0284-03	Round, light purple, film-coated tablets debossed with "Pfizer" on one side and "PBC 75" on the other side.

Store at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C to 30°C (59°F to 86°F) [see *USP Controlled Room Temperature*]. Store in the original blister pack.

## 17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information).

### Myelosuppression/Infection

- Advise patients to immediately report any signs or symptoms of myelosuppression or infection, such as fever, chills, dizziness, shortness of breath, weakness, or any increased tendency to bleed and/or to bruise [see *Warnings and Precautions (5.1)*].

### Interstitial Lung Disease/Pneumonitis

- Advise patients to immediately report new or worsening respiratory symptoms [see *Warnings and Precautions (5.2)*].

### Drug Interactions

- Grapefruit may interact with IBRANCE. Patients should not consume grapefruit products while on treatment with IBRANCE.
- Inform patients to avoid strong CYP3A inhibitors and strong CYP3A inducers.
- Advise patients to inform their healthcare providers of all concomitant medications, including prescription medicines, over-the-counter drugs, vitamins, and herbal products [see *Drug Interactions (7)*].

### Dosing and Administration

- Inform patients that IBRANCE tablets may be taken with or without food.
- If the patient vomits or misses a dose, an additional dose should not be taken. The next prescribed dose should be taken at the usual time. IBRANCE tablets should be swallowed whole (do not chew, crush, or split them prior to swallowing). No tablet should be ingested if it is broken, cracked, or otherwise not intact.
- Pre/perimenopausal women treated with IBRANCE should also be treated with LHRH agonists [see *Dosage and Administration (2.1)*].

## Pregnancy, Lactation, and Infertility

- Embryo-Fetal Toxicity
  - Advise females of reproductive potential of the potential risk to a fetus and to use effective contraception during treatment with IBRANCE therapy and for at least 3 weeks after the last dose. Advise females to inform their healthcare provider of a known or suspected pregnancy [see *Warnings and Precautions (5.3) and Use in Specific Populations (8.1 and 8.3)*].
  - Advise male patients with female partners of reproductive potential to use effective contraception during treatment with IBRANCE and for at least 3 months after the last dose [see *Use in Specific Populations (8.3)*].
- Lactation: Advise women not to breastfeed during treatment with IBRANCE and for 3 weeks after the last dose [see *Use in Specific Populations (8.2)*].
- Infertility: Inform males of reproductive potential that IBRANCE may cause infertility and to consider sperm preservation before taking IBRANCE [see *Use in Specific Populations (8.3)*].

This product's label may have been updated. For full prescribing information, please visit [www.IBRANCE.com](http://www.IBRANCE.com).



LAB-1371-1.0

### **PATIENT INFORMATION** **IBRANCE® (EYE-brans)** **(palbociclib)** Tablets

#### **What is the most important information I should know about IBRANCE?**

##### **IBRANCE may cause serious side effects, including:**

**Low white blood cell counts (neutropenia).** Low white blood cell counts are very common when taking IBRANCE and may cause serious infections that can lead to death. Your healthcare provider should check your white blood cell counts before and during treatment.

If you develop low white blood cell counts during treatment with IBRANCE, your healthcare provider may stop your treatment, decrease your dose, or may tell you to wait to begin your treatment cycle. Tell your healthcare provider right away if you have signs and symptoms of low white blood cell counts or infections such as fever and chills.

**Lung problems (pneumonitis).** IBRANCE may cause severe or life-threatening inflammation of the lungs during treatment that can lead to death. Tell your healthcare provider right away if you have any new or worsening symptoms, including:

- chest pain
- cough with or without mucus
- trouble breathing or shortness of breath

Your healthcare provider may interrupt or stop treatment with IBRANCE completely if your symptoms are severe.

**See "What are the possible side effects of IBRANCE?" for more information about side effects.**

#### **What is IBRANCE?**

IBRANCE is a prescription medicine used in adults to treat hormone receptor (HR)-positive, human

epidermal growth factor receptor 2 (HER2)-negative breast cancer that has spread to other parts of the body (metastatic) in combination with:

- an aromatase inhibitor as the first hormonal based therapy in postmenopausal women or in men, or
- fulvestrant in people with disease progression following hormonal therapy.

It is not known if IBRANCE is safe and effective in children.

**Before taking IBRANCE, tell your healthcare provider about all of your medical conditions, including if you:**

- have fever, chills, or any other signs or symptoms of infection.
- have liver or kidney problems.
- are pregnant, or plan to become pregnant. IBRANCE can harm your unborn baby.
  - Females who are able to become pregnant should use effective birth control during treatment and for at least 3 weeks after the last dose of IBRANCE. Your healthcare provider may ask you to take a pregnancy test before you start treatment with IBRANCE.
  - Males with female partners who can become pregnant should use effective birth control during treatment with IBRANCE for at least 3 months after the last dose of IBRANCE.
  - Talk to your healthcare provider about birth control methods that may be right for you during this time.
  - If you become pregnant or think you are pregnant, tell your healthcare provider right away.
- are breastfeeding or plan to breastfeed. It is not known if IBRANCE passes into your breast milk. Do not breastfeed during treatment with IBRANCE and for 3 weeks after the last dose.

**Tell your healthcare provider about all of the medicines you take, including** prescription and over-the-counter medicines, vitamins, and herbal supplements. IBRANCE and other medicines may affect each other causing side effects.

**How should I take IBRANCE?**

- Take IBRANCE exactly as your healthcare provider tells you.
- IBRANCE tablets may be taken with or without food.
- IBRANCE should be taken at about the same time each day.
- Swallow IBRANCE tablets whole. Do not chew, crush or split IBRANCE tablets before swallowing them.
- Do not take any IBRANCE tablets that are broken, cracked, or that look damaged.
- Avoid grapefruit and grapefruit products during treatment with IBRANCE. Grapefruit may increase the amount of IBRANCE in your blood.
- Do not change your dose or stop taking IBRANCE unless your healthcare provider tells you.
- If you miss a dose of IBRANCE or vomit after taking a dose of IBRANCE, do not take another dose on that day. Take your next dose at your regular time.
- If you take too much IBRANCE, call your healthcare provider right away or go to the nearest hospital emergency room.

**What are the possible side effects of IBRANCE?**

**IBRANCE may cause serious side effects. See "What is the most important information I should know about IBRANCE?"**

**The most common side effects of IBRANCE when used with either letrozole or fulvestrant include:**

- Low red blood cell counts and low platelet counts are common with IBRANCE. Call your healthcare provider right away if you develop any of these symptoms during treatment:
  - dizziness
  - shortness of breath
  - weakness
  - bleeding or bruising more easily
  - nosebleeds

- infections (see "What is the most important information I should know about IBRANCE?")
- tiredness
- nausea
- sore mouth
- abnormalities in liver blood tests
- diarrhea
- hair thinning or hair loss
- vomiting
- rash
- loss of appetite

IBRANCE may cause fertility problems in males. This may affect your ability to father a child. Talk to your healthcare provider about family planning options before starting IBRANCE if this is a concern for you.

These are not all of the possible side effects of IBRANCE.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

### **How should I store IBRANCE?**

- Store IBRANCE at 68 °F to 77 °F (20 °C to 25 °C) in the original blister pack.

### **Keep IBRANCE and all medicines out of the reach of children.**

### **General information about the safe and effective use of IBRANCE**

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use IBRANCE for a condition for which it was not prescribed. Do not give IBRANCE to other people, even if they have the same symptoms you have. It may harm them. You can ask your pharmacist or healthcare provider for more information about IBRANCE that is written for health professionals.

### **What are the ingredients in IBRANCE?**

Active ingredient: palbociclib

Inactive ingredients: microcrystalline cellulose, colloidal silicon dioxide, crospovidone, magnesium stearate, succinic acid, HPMC 2910/hypromellose, titanium dioxide, triacetin, and FD&C Blue #2/Indigo Carmine Aluminum Lake. In addition, the 75 mg and 125 mg tablets contain red iron oxide and the 100 mg tablets contain yellow iron oxide.



LAB-1372-1.0

For more information, go to [www.IBRANCE.com](http://www.IBRANCE.com) or call 1-800-438-1985.

This Patient Information has been approved by the U.S. Food and Drug Administration.

Revised: November 2019

### **PRINCIPAL DISPLAY PANEL - 75 mg Tablet Dose Pack**

PROFESSIONAL SAMPLE - NOT FOR SALE

Pfizer

NDC 63539-284-07

IBRANCE®  
(palbociclib)

tablets

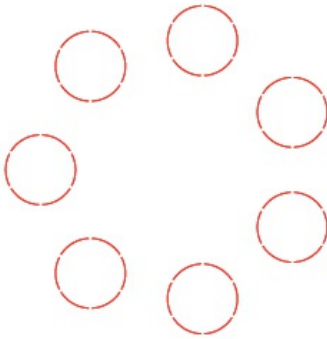

75 mg

This weekly pack contains:  
7 tablets (75 mg per tablet)

Rx only





<p>provider tells you.</p> <ul style="list-style-type: none"> <li>• IBRANCE tablets may be taken with or without food.</li> <li>• IBRANCE should be taken at about the same time each day.</li> <li>• Swallow IBRANCE tablets whole. Do not chew, crush or split IBRANCE tablets before swallowing them.</li> <li>• Do not take any IBRANCE tablets that are broken, cracked, or that look damaged.</li> <li>• Avoid grapefruit and grapefruit products during treatment with IBRANCE. Grapefruit may increase the amount of IBRANCE in your blood.</li> <li>• Do not change your dose or stop taking IBRANCE unless your healthcare provider tells you.</li> <li>• If you miss a dose of IBRANCE or vomit after taking a dose of IBRANCE, do not take another dose on that day. Take your next dose at your regular time.</li> <li>• If you take too much IBRANCE, call your healthcare provider right away or go to the nearest hospital emergency room.</li> </ul>		<table border="1"> <tr> <td>Week:</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>Week:</td> <td>4</td> <td colspan="2">No IBRANCE</td> </tr> </table> <p><b>For this weekly pack,</b> circle above the week of treatment you are currently on.</p> <p>Take your dose of IBRANCE at approximately the <b>same time</b> every day.</p> <p> Fill in the time of your daily dose: ____:____ AM PM</p>	Week:	1	2	3	Week:	4	No IBRANCE	
Week:	1	2	3							
Week:	4	No IBRANCE								

## PRINCIPAL DISPLAY PANEL - 75 mg Tablet Dose Pack Box

PROFESSIONAL SAMPLE - NOT FOR SALE

Pfizer

NDC 63539-284-03

IBRANCE<sup>®</sup>  
(palbociclib)

tablets

75 mg

21 tablets

Monthly Box Contains: 3 individual weekly packs. Each pack contains 7 IBRANCE tablets (75 mg per tablet).

Rx only

Safety  
Label

For more information,  
go to [www.IBRANCE.com](http://www.IBRANCE.com) or call 1-800-438-1985.

Take IBRANCE exactly as your  
healthcare provider tells you.  
Take 1 IBRANCE tablet, once daily,  
for 21 consecutive days followed by  
7 days off treatment.

# IBRANCE<sup>®</sup> (palbociclib) tablets

75  
mg

PROFESSIONAL SAMPLE - NOT FOR SALE



NDC 63539-284-03

## IBRANCE<sup>®</sup> (palbociclib) tablets

75 mg

21 tablets

**Monthly Box Contains:** 3 individual weekly  
packs. Each pack contains 7 IBRANCE tablets  
(75 mg per tablet).

Rx only

Safety  
Label

**DOSAGE AND USE**  
Please see accompanying Prescribing Information and Patient Information.  
Each tablet contains 75 mg of palbociclib.

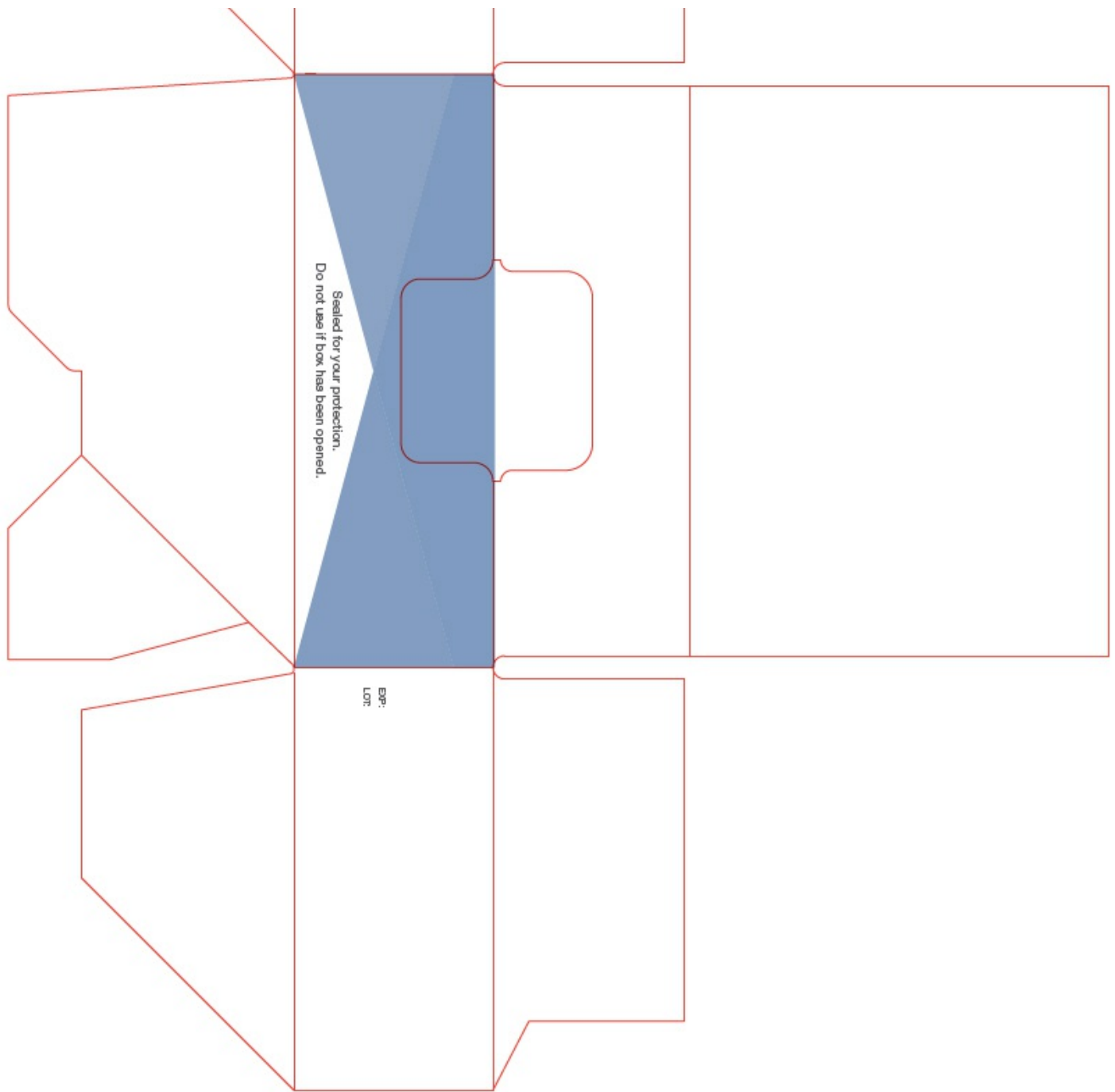
Store in original blister pack  
at 20°C to 25°C (68°F to 77°F);  
excursions permitted between  
15°C to 30°C (59°F to 86°F).

Distributed by  
U.S. Pharmaceutical  
Pfizer Inc, NY, NY 10017  
MADE IN IRELAND



PA4135220

  
**IBRANCE<sup>®</sup>**  
(palbociclib)  
tablets  
75 mg



**PRINCIPAL DISPLAY PANEL - 100 mg Tablet Dose Pack**

PROFESSIONAL SAMPLE - NOT FOR SALE

Pfizer

NDC 63539-486-07

IBRANCE<sup>®</sup>  
(palbociclib)

tablets

100 mg

This weekly pack contains:  
7 tablets (100 mg per tablet)

Rx only





Take **IBRANCE**:

1 tablet, once daily, for 21 consecutive days

followed by 7 days off treatment.

For more information, go to [www.IBRANCE.com](http://www.IBRANCE.com).

100 mg

IBRANCE® (palbociclib) tablets

DOSAGE AND USE

Please see accompanying Prescribing Information and Patient Information. Each tablet contains 100 mg of palbociclib.

Store in original blister pack at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C to 30°C (59°F to 86°F).

Distributed by  
U.S. Pharmaceuticals  
Pfizer Inc, NY, NY 10017  
PAA130758

LOT:

EXP:

PROFESSIONAL SAMPLE - NOT FOR SALE

NDC 63539-486-07

**IBRANCE**®  
(palbociclib)  
tablets  
**100 mg**

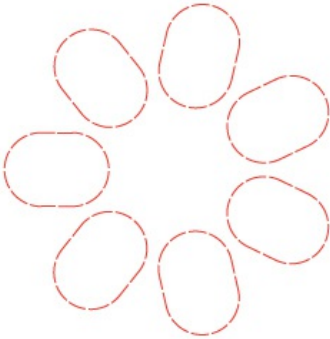

This weekly pack contains:  
7 tablets (100 mg per tablet)

Rx only

How should I take  
**IBRANCE**® (palbociclib)?

- Take IBRANCE exactly as your healthcare provider tells you.

PAA130758

<ul style="list-style-type: none"> <li>• IBRANCE tablets may be taken with or without food.</li> <li>• IBRANCE should be taken at about the same time each day.</li> <li>• Swallow IBRANCE tablets whole. Do not chew, crush or split IBRANCE tablets before swallowing them.</li> <li>• Do not take any IBRANCE tablets that are broken, cracked, or that look damaged.</li> <li>• Avoid grapefruit and grapefruit products during treatment with IBRANCE. Grapefruit may increase the amount of IBRANCE in your blood.</li> <li>• Do not change your dose or stop taking IBRANCE unless your healthcare provider tells you.</li> <li>• If you miss a dose of IBRANCE or vomit after taking a dose of IBRANCE, do not take another dose on that day. Take your next dose at your regular time.</li> <li>• If you take too much IBRANCE, call your healthcare provider right away or go to the nearest hospital emergency room.</li> </ul>		<table border="1"> <tr> <td>Week:</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>Week:</td> <td>4</td> <td colspan="2">No IBRANCE</td> </tr> </table> <p><b>For this weekly pack,</b> circle above the week of treatment you are currently on.</p> <p>Take your dose of IBRANCE at approximately the <b>same time</b> every day.</p> <p> Fill in the time of your daily dose: ____:____ AM PM</p>	Week:	1	2	3	Week:	4	No IBRANCE	
Week:	1	2	3							
Week:	4	No IBRANCE								

## PRINCIPAL DISPLAY PANEL - 100 mg Tablet Dose Pack Box

PROFESSIONAL SAMPLE - NOT FOR SALE

Pfizer

NDC 63539-486-03

IBRANCE®  
(palbociclib)

tablets

100 mg

21 tablets

Monthly Box Contains: 3 individual weekly  
packs. Each pack contains 7 IBRANCE tablets  
(100 mg per tablet).

Rx only

Safety  
Label

For more information,  
go to [www.IBRANCE.com](http://www.IBRANCE.com) or call 1-800-438-1985.

Take IBRANCE exactly as your  
healthcare provider tells you.  
Take 1 IBRANCE tablet, once daily,  
for 21 consecutive days followed by  
7 days off treatment.

**IBRANCE<sup>®</sup>**  
(palbociclib)  
tablets

**100  
mg**

PROFESSIONAL SAMPLE - NOT FOR SALE



NDC 63539-486-03

**IBRANCE<sup>®</sup>**  
(palbociclib)  
tablets

**100 mg**

21 tablets

Monthly Box Contains: 3 individual weekly  
packs. Each pack contains 7 IBRANCE tablets  
(100 mg per tablet).

**Rx only**

Safety  
Label

**DOSE AND USE**  
Please see accompanying Prescribing Information and Patient Information.  
Each tablet contains 100 mg of palbociclib.

Store in original blister pack  
at 20°C to 25°C (68°F to 77°F);  
excursions permitted between  
15°C to 30°C (59°F to 86°F).

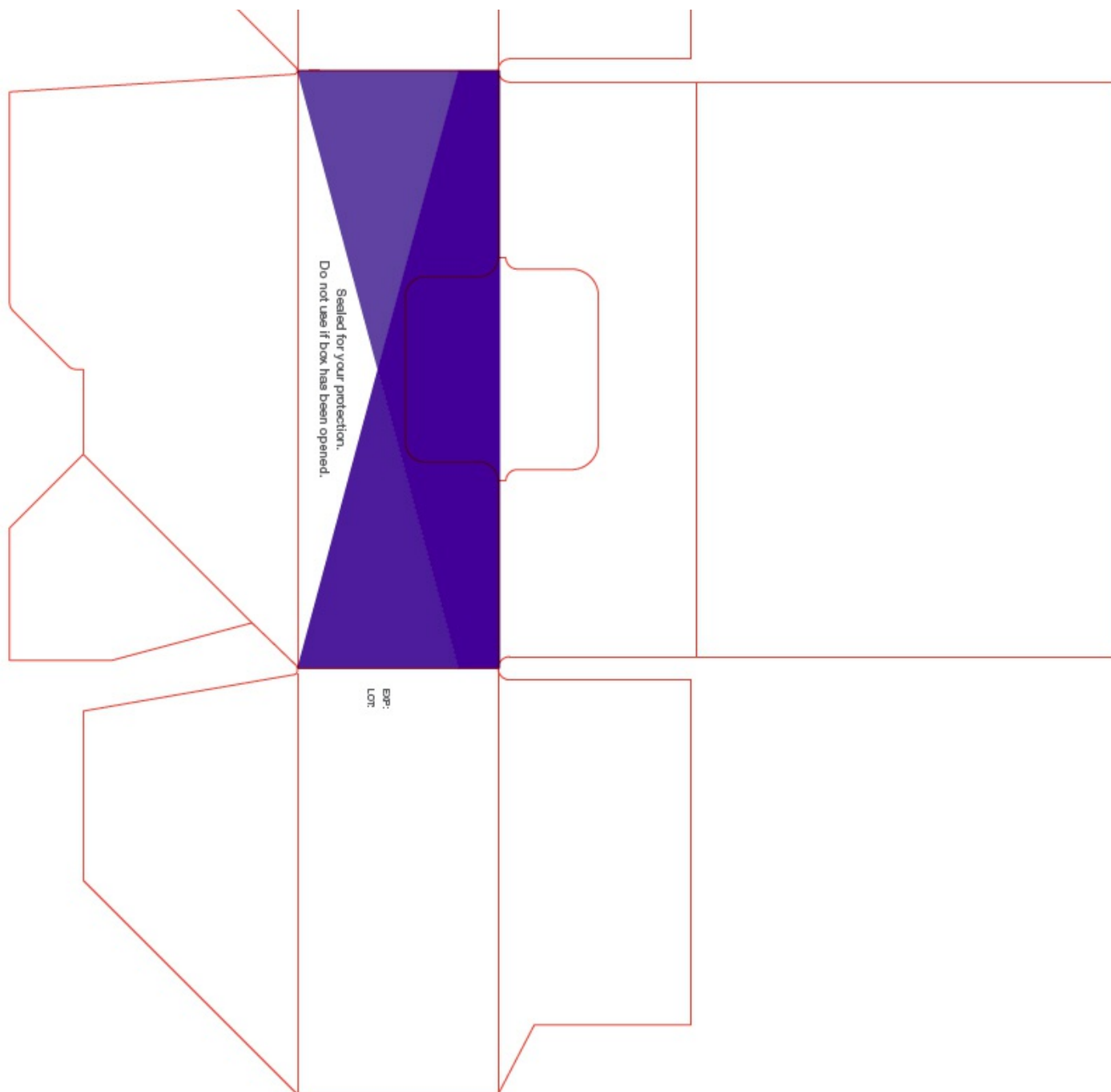
Distributed by  
U.S. Pharmaceuticals  
Pfizer Inc., NY, NY 10017  
**MADE IN IRELAND**



PAA135028

**IBRANCE<sup>®</sup>**  
(palbociclib)  
tablets  
**100 mg**





**PRINCIPAL DISPLAY PANEL - 125 mg Tablet Dose Pack**

PROFESSIONAL SAMPLE - NOT FOR SALE

Pfizer

NDC 63539-688-07

IBRANCE<sup>®</sup>  
(palbociclib)

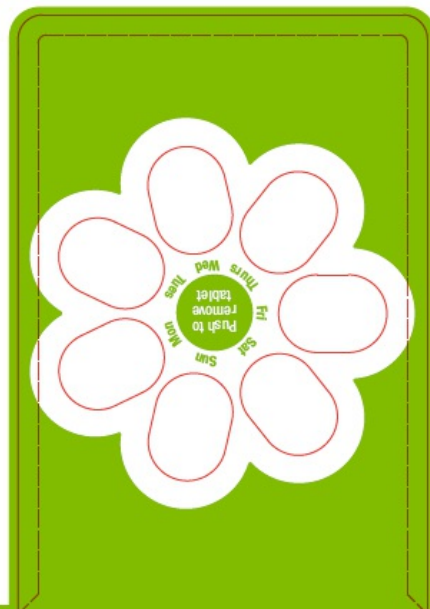
tablets

125 mg

This weekly pack contains:  
7 tablets (125 mg per tablet)

Rx only





Take **IBRANCE**:

1 tablet, once daily, for 21 consecutive days

followed by 7 days off treatment.

For more information, go to [www.IBRANCE.com](http://www.IBRANCE.com).

IBRANCE® (palbociclib) tablets

125 mg

**DOSAGE AND USE**

Please see accompanying Prescribing Information and Patient Information. Each tablet contains 125 mg of palbociclib.

Push tablet through from other side

Store in original blister pack at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C to 30°C (59°F to 86°F).

Distributed by  
U.S. Pharmaceuticals  
Pfizer Inc, NY, NY 10017  
PAA130704

LOT:

EXP:

PROFESSIONAL SAMPLE - NOT FOR SALE

NDC 63539-088-07

**IBRANCE**®  
(palbociclib)  
tablets  
**125 mg**

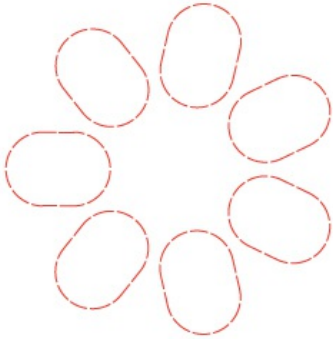

This weekly pack contains:  
7 tablets (125 mg per tablet)

Rx only

#### How should I take IBRANCE® (palbociclib)?

- Take IBRANCE exactly as your healthcare provider tells you.

PAA130704

<ul style="list-style-type: none"> <li>• IBRANCE tablets may be taken with or without food.</li> <li>• IBRANCE should be taken at about the same time each day.</li> <li>• Swallow IBRANCE tablets whole. Do not chew, crush or split IBRANCE tablets before swallowing them.</li> <li>• Do not take any IBRANCE tablets that are broken, cracked, or that look damaged.</li> <li>• Avoid grapefruit and grapefruit products during treatment with IBRANCE. Grapefruit may increase the amount of IBRANCE in your blood.</li> <li>• Do not change your dose or stop taking IBRANCE unless your healthcare provider tells you.</li> <li>• If you miss a dose of IBRANCE or vomit after taking a dose of IBRANCE, do not take another dose on that day. Take your next dose at your regular time.</li> <li>• If you take too much IBRANCE, call your healthcare provider right away or go to the nearest hospital emergency room.</li> </ul>		<table border="1"> <tr> <td>Week:</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>Week:</td> <td>4</td> <td colspan="2">No IBRANCE</td> </tr> </table> <p><b>For this weekly pack,</b> circle above the week of treatment you are currently on.</p> <p>Take your dose of IBRANCE at approximately the <b>same time</b> every day.</p> <p> Fill in the time of your daily dose: ____:____ AM PM</p>	Week:	1	2	3	Week:	4	No IBRANCE	
Week:	1	2	3							
Week:	4	No IBRANCE								

## PRINCIPAL DISPLAY PANEL - 125 mg Tablet Dose Pack Box

PROFESSIONAL SAMPLE - NOT FOR SALE

Pfizer

NDC 63539-688-03

IBRANCE<sup>®</sup>  
(palbociclib)

tablets

125 mg

21 tablets

Monthly Box Contains: 3 individual weekly  
packs. Each pack contains 7 IBRANCE tablets  
(125 mg per tablet).

Rx only

Safety  
Label

125 mg

**IBRANCE<sup>®</sup>**  
(palbociclib)  
tablets

Take 1 IBRANCE tablet, once daily,  
for 21 consecutive days followed by  
7 days off treatment.  
Take IBRANCE exactly as your  
healthcare provider tells you.

For more information,  
go to [www.IBRANCE.com](http://www.IBRANCE.com) or call 1-800-438-1985.

PROFESSIONAL SAMPLE - NOT FOR SALE



NDC 63539-688-03

**IBRANCE<sup>®</sup>**  
(palbociclib)  
tablets

**125 mg**

21 tablets

**Monthly Box** Contains: 3 individual weekly  
packs. Each pack contains 7 IBRANCE tablets  
(125 mg per tablet).

**Rx only**

Safety  
Label



**IBRANCE<sup>®</sup>**  
(palbociclib)  
tablets  
**125 mg**

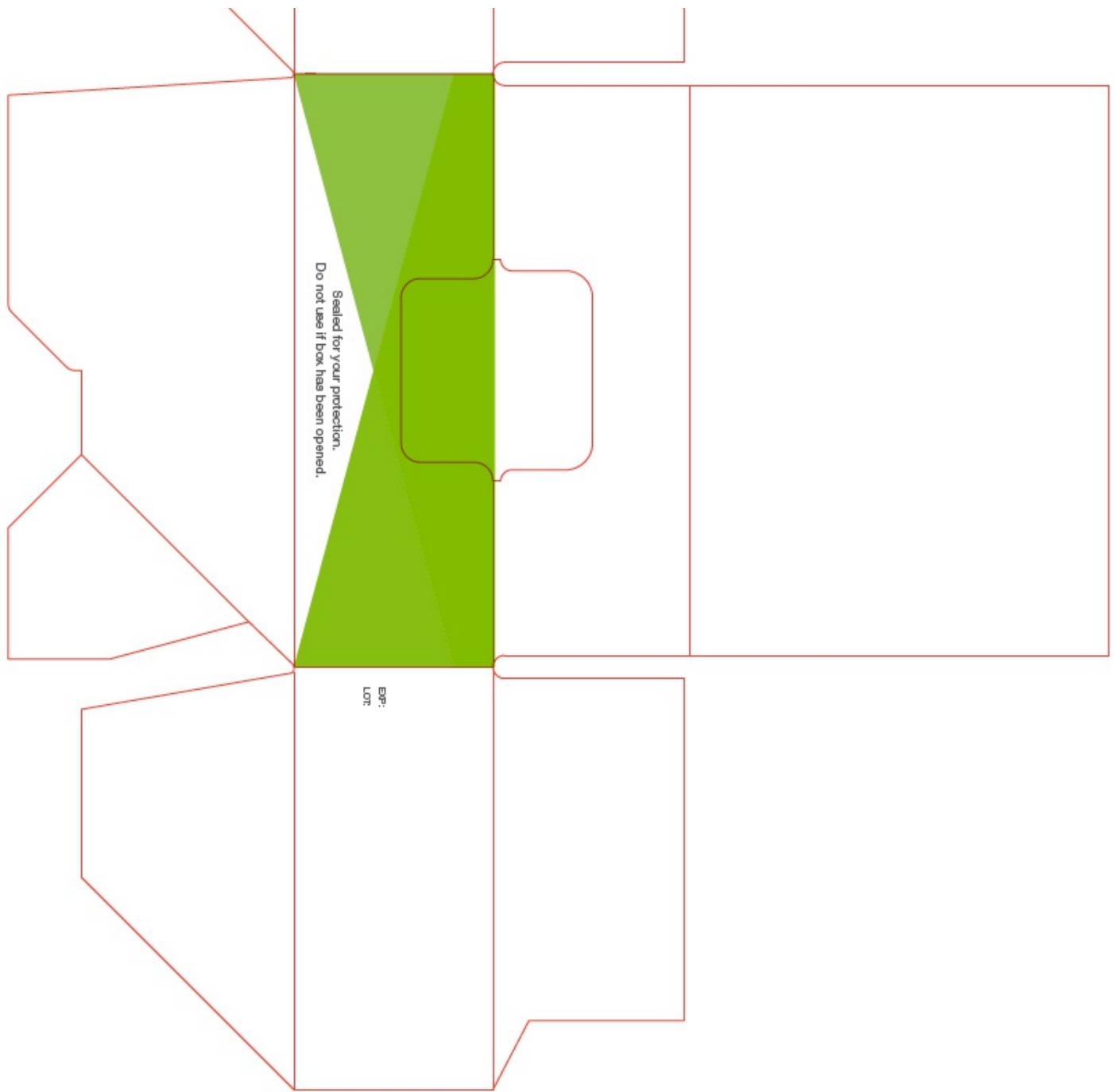
**DOSAGE AND USE**  
Please see accompanying Prescribing Information and Patient Information.  
Each tablet contains 125 mg of palbociclib.

Store in original blister pack  
at 20°C to 25°C (68°F to 77°F);  
excursions permitted between  
15°C to 30°C (59°F to 86°F).

Distributed by  
U.S. Pharmaceutical  
Pfizer Inc., NY, NY 10017  
MADE IN IRELAND



PA4135287



## PRINCIPAL DISPLAY PANEL - Topper Card

Your Monthly Box

Includes 3 weekly packs of  
IBRANCE® (palbociclib) medication.

Fill in the dates below to help track your treatment cycle.

Treatment Cycle

Week 1 Week 2 Week 3

IBRANCE

Week 4

No IBRANCE

My Treatment Cycle Tracker

I start my Week 1  
treatment cycle on:

\_\_\_\_\_/\_\_\_\_\_  
MONTH DAY

After Week 4, I will start my  
next treatment cycle on:

\_\_\_\_\_/\_\_\_\_\_  
MONTH DAY

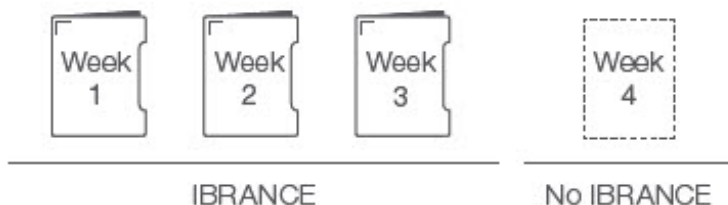
PAA119239

### Your Monthly Box

Includes 3 weekly packs of  
IBRANCE® (palbociclib) medication.

Fill in the dates below to help track your treatment cycle.

#### Treatment Cycle



#### My Treatment Cycle Tracker

I start my Week 1  
treatment cycle on:

\_\_\_\_\_/\_\_\_\_\_  
MONTH DAY

After Week 4, I will start my  
next treatment cycle on:

\_\_\_\_\_/\_\_\_\_\_  
MONTH DAY



PAA119239

palbociclib tablet, film coated				
Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:63539-284	
Route of Administration	ORAL			
Active Ingredient/Active Moiety				
Ingredient Name		Basis of Strength	Strength	
PALBOCICLIB (UNII: G9ZF61LE7G) (PALBOCICLIB - UNII:G9ZF61LE7G)		PALBOCICLIB	75 mg	
Inactive Ingredients				
Ingredient Name			Strength	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)				
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)				
MAGNESIUM STEARATE (UNII: 70097M6I30)				
FERRIC OXIDE RED (UNII: 1K09F3G675)				
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)				
CROSPOVIDONE, UNSPECIFIED (UNII: 2S7830E561)				
SUCCINIC ACID (UNII: AB6MNQ6J6L)				
HYPROMELLOSE 2910 (6 MPA.S) (UNII: 0WZ8WG20P6)				
TRIACETIN (UNII: XHX3C3X673)				
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)				
Product Characteristics				
Color	PURPLE	Score	no score	
Shape	ROUND	Size	10mm	
Flavor		Imprint Code	Pfizer;PBC;75	
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:63539-284-03	3 in 1 CARTON	03/30/2020	
1	NDC:63539-284-07	7 in 1 DOSE PACK; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category	Application Number or Monograph Citation		Marketing Start Date	Marketing End Date
NDA	NDA212436		03/30/2020	
IBRANCE				
palbociclib tablet, film coated				



Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:63539-486
Route of Administration	ORAL		

Active Ingredient/Active Moiety		
Ingredient Name	Basis of Strength	Strength
PALBOCICLIB (UNII: G9ZF61LE7G) (PALBOCICLIB - UNII:G9ZF61LE7G)	PALBOCICLIB	100 mg

Inactive Ingredients	
Ingredient Name	Strength
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)	
MAGNESIUM STEARATE (UNII: 70097M6I30)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	
CROSPOLYMER, UNSPECIFIED (UNII: 2S7830E561)	
SUCCINIC ACID (UNII: AB6MNQ6J6L)	
HYPROMELLOSE 2910 (6 MPAS) (UNII: 0WZ8WG20P6)	
TRIACETIN (UNII: XHX3C3X673)	
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)	
FERRIC OXIDE YELLOW (UNII: EX438O2MRT)	

Product Characteristics			
Color	GREEN	Score	no score
Shape	OVAL	Size	15mm
Flavor		Imprint Code	Pfizer;PBC;100
Contains			

Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:63539-486-03	3 in 1 CARTON	03/30/2020	
1	NDC:63539-486-07	7 in 1 DOSE PACK; Type 0: Not a Combination Product		

Marketing Information			
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA	NDA212436	03/30/2020	

<div>IBRANCE</div> <div>palbociclib tablet, film coated</div>
<div>Product Information</div>

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:63539-688	
Route of Administration	ORAL			
Active Ingredient/Active Moiety				
Ingredient Name		Basis of Strength	Strength	
PALBOCICLIB (UNII: G9ZF61LE7G) (PALBOCICLIB - UNII:G9ZF61LE7G)		PALBOCICLIB	125 mg	
Inactive Ingredients				
Ingredient Name			Strength	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)				
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)				
MAGNESIUM STEARATE (UNII: 70097M6I30)				
FERRIC OXIDE RED (UNII: 1K09F3G675)				
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)				
CROSPVIDONE, UNSPECIFIED (UNII: 2S7830E561)				
SUCCINIC ACID (UNII: AB6MNQ6J6L)				
HYPROMELLOSE 2910 (6 MPA.S) (UNII: 0WZ8WG20P6)				
TRIACETIN (UNII: XHX3C3X673)				
FD&C BLUE NO. 2 (UNII: L06K8R7DQK)				
Product Characteristics				
Color	PURPLE	Score	no score	
Shape	OVAL	Size	16mm	
Flavor		Imprint Code	Pfizer;PBC;125	
Contains				
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:63539-688-03	3 in 1 CARTON	03/30/2020	
1	NDC:63539-688-07	7 in 1 DOSE PACK; Type 0: Not a Combination Product		
Marketing Information				
Marketing Category	Application Number or Monograph Citation		Marketing Start Date	Marketing End Date
NDA	NDA212436		03/30/2020	

**Labeler** - US Pharmaceuticals (829076905)

Establishment			
Name	Address	ID/FEI	Business Operations
Pfizer Pharmaceuticals LLC		829084552	ANALYSIS(63539-284, 63539-486, 63539-688) , PACK(63539-284, 63539-486, 63539-688)

Establishment			
Name	Address	ID/FEI	Business Operations
Pfizer Ireland Pharmaceuticals		985104227	API MANUFACTURE(63539-284, 63539-486, 63539-688)

Establishment			
Name	Address	ID/FEI	Business Operations
Pfizer Manufacturing Deutschland GmbH		341970073	ANALYSIS(63539-284, 63539-486, 63539-688) , LABEL(63539-284, 63539-486, 63539-688) , MANUFACTURE(63539-284, 63539-486, 63539-688) , PACK(63539-284, 63539-486, 63539-688)

Revised: 1/2020

US Pharmaceuticals